

SEQUENCE LISTING

<110> Van Atta, Reuel B.
 Wood, Michael L.

 <120> METHODS AND COMPOSITIONS FOR DETECTING NUCLEIC ACID SEQUENCES

 <130> NX26

 <150> US 60/443,820
 <151> 2003-01-29

 <160> 39

 <170> PatentIn version 3.2

 <210> 1
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <220>
 <221> misc_feature
 <222> (1)..(1)
 <223> Biotin-containing nucleotide

 <220>
 <221> misc_feature
 <222> (2)..(2)
 <223> "n" represents a non-nucleosidic cross-linking agent

 <400> 1
 anaataagga gcggacagtt t 21

 <210> 2
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <220>
 <221> misc_feature
 <222> (1)..(1)
 <223> Biotin-containing nucleotide

 <220>
 <221> misc_feature
 <222> (2)..(2)
 <223> "n" represents a non-nucleosidic cross-linking agent

 <400> 2
 anaataagga acggacaggt tt 22

<210> 3
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (2)..(2)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (15)..(15)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 3
anactttcca atgangttcc tgttttatgg acttt

35

<210> 4
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (2)..(2)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (16)..(16)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (39)..(39)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 4
anagtccta gacganaatg tctaattcttc atcaggatna

40

<210> 5
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (2)..(2)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (15)..(15)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (38)..(38)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 5
anattccctag acganaatgt ctaattcttca tcaggatna

39

<210> 6
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (23)..(23)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 6
tttattccttt ccgattagtt ganc

24

<210> 7
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (9)..(9)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (31)..(31)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 7
tgggaccanc ttgacgagac tagtaccaca nc

32

<210> 8
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (29)..(29)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 8
tanagagtga cttggggggtt tgtctggana

30

<210> 9
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (12)..(12)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> "n" represents a non-nucleosidic cross-linking agent

<400> 9
 tctggacctt anactttgat tctgttttat acna

34

<210> 10
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> Fluorescein-containing nucleotide

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> "n" represents a non-nucleosidic cross-linking agent

<220>
 <221> misc_feature
 <222> (15)..(15)
 <223> "n" represents a non-nucleosidic cross-linking agent

<400> 10
 tanatctgaa cggangccgt cactaccatg ac

32

<210> 11
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> Fluorescein-containing nucleotide

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> "n" represents a non-nucleosidic cross-linking agent

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> "n" represents a non-nucleosidic cross-linking agent

<400> 11
tantagtgtg accacgattt ttcctgatga nc

32

<210> 12
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (34)..(34)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 12
tantgacaag agaacttcct ttacggggta atana

35

<210> 13
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Biotin-containing nucleotide

<220>
<221> misc_feature
<222> (2)..(2)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 13
anaaggagcg gacaggt

17

<210> 14
<211> 24
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<220>

<221> misc_feature

<222> (1)..(1)

<223> Biotin-containing nucleotide

<220>

<221> misc_feature

<222> (2)..(2)

<223> "n" represents a non-nucleosidic cross-linking agent

<400> 14

anaagatact agtactctca gttt

24

<210> 15

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<220>

<221> misc_feature

<222> (1)..(1)

<223> Biotin-containing oligonucleotide

<220>

<221> misc_feature

<222> (2)..(2)

<223> "n" represents a non-nucleosidic cross-linking agent

<400> 15

anaagatact actactctca gttt

24

<210> 16

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<220>

<221> misc_feature

<222> (2)..(2)

<223> "n" represents a non-nucleosidic cross-linking agent

<220>

<221> misc_feature

<222> (10)..(10)

<223> "n" represents a non-nucleosidic cross-linking agent

<400> 16

anacttcgan acccgatgca cctactgggc gacaagcaca ttt

43

<210> 17
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (2)..(2)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (32)..(32)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (44)..(44)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 17
anacggcaca cctcggggct tgaggtaccc anaggtcatc ttana

45

<210> 18
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (8)..(8)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (30)..(30)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 18
tggtctanac cgacgtcgac tcagtctcan a

31

<210> 19
<211> 26
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<220>

<221> misc_feature

<222> (1)..(1)

<223> Fluorescein-containing nucleotide

<220>

<221> misc_feature

<222> (18)..(18)

<223> "n" represents a non-nucleosidic cross-linking agent

<220>

<221> misc_feature

<222> (25)..(25)

<223> "n" represents a non-nucleosidic cross-linking agent

<400> 19

tcccacccta gtgtacangt gacanc

26

<210> 20

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<220>

<221> misc_feature

<222> (1)..(1)

<223> Fluorescein-containing nucleotide

<220>

<221> misc_feature

<222> (11)..(11)

<223> "n" represents a non-nucleosidic cross-linking agent

<220>

<221> misc_feature

<222> (31)..(31)

<223> "n" represents a non-nucleosidic cross-linking agent

<400> 20

tgttcccata nacctctccc ccggagtgga ng

32

<210> 21

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (32)..(32)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 21
tanaacaccc tcgtcccttc tcccttcctt ana

33

<210> 22
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (14)..(14)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 22
tanaccaacg tcanttgttc cgacccc

27

<210> 23
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (28)..(28)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 23
tanccctac cacctttatc cctggatna

29

<210> 24
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (25)..(25)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 24
tangtgtgag agacgtgatg gagang

26

<210> 25
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Biotin-containing nucleotide

<220>
<221> misc_feature
<222> (2)..(2)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 25
 anaatatgca cgggccacct tt 22

<210> 26
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> Biotin-containing nucleotide

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> "n" represents a non-nucleosidic cross-linking agent

<400> 26
 anaatatgca tgggccacct tt 22

<210> 27
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> "n" represents a non-nucleosidic cross-linking agent

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> "n" represents a non-nucleosidic cross-linking agent

<400> 27
 gnaccganat gggggacccc ttctcgtctc tttt 34

<210> 28
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<220>

<221> misc_feature
<222> (2)..(2)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (31)..(31)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (38)..(38)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 28
anatcgtggg tccggaccta gtcggggagt nacactana

39

<210> 29
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (34)..(34)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 29
tantctcagg ttagaatcct gtgttttacc acana

35

<210> 30
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>

<221> misc_feature
<222> (15)..(15)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (30)..(30)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 30
tcacggaaca aaaanagact tttcccatan a

31

<210> 31
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (32)..(32)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 31
tanggaggtt ggatatcttc cttcactttc ang

33

<210> 32
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (11)..(11)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>

<221> misc_feature
 <222> (30)..(30)
 <223> "n" represents a non-nucleosidic cross-linking agent

<400> 32
 tggaaggaga naggacagtt cacggagga a

31

<210> 33
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> Fluorescein-containing nucleotide

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> "n" represents a non-nucleosidic cross-linking agent

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> "n" represents a non-nucleosidic cross-linking agent

<400> 33
 tgtgtagtac actggagang tcactggtga na

32

<210> 34
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> Fluorescein-containing nucleotide

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> "n" represents a non-nucleosidic cross-linking agent

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> "n" represents a non-nucleosidic cross-linking agent

<400> 34

tanagcccg ancttgatga tgggggtctt g

31

<210> 35
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (20)..(20)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (30)..(30)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 35
tcccaccgtt agtttccgan attgaacgan a

31

<210> 36
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (30)..(30)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 36
tantaccgtc actctactcc tagacgagan a

31

<210> 37
<211> 30

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (10)..(10)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 37
tancccccac ctctcctcac ggactcctcc

30

<210> 38
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (34)..(34)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 38
tanactgact actctcggtc ctcgactctt ttana

35

<210> 39
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<220>
<221> misc_feature
<222> (1)..(1)
<223> Fluorescein-containing nucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> "n" represents a non-nucleosidic cross-linking agent

<220>
<221> misc_feature
<222> (19)..(19)
<223> "n" represents a non-nucleosidic cross-linking agent

<400> 39
tangcttgga ttctgcana acgggtacc c

31